AMA 3/16/09

Please replace the paragraph beginning on page 9, line ~~12~~ 11, with the following rewritten paragraph:

(11) The holographic memory reproducing apparatus according to (10) wherein the reproducing optical system comprises a light emitting array which emits the reproduction beam from a plurality of light emitting point positions each of which provides the same incident angle ~~light intensity~~ as the incident angle of the reference beam to the holographic recording medium upon the angle multiplex recording.

AMA 3/16/09

Please replace the paragraph beginning on page 10, line ~~4~~ 3, with the following rewritten paragraph:

(13) A holographic recording and reproducing apparatus comprising: a laser beam source; a beam splitter which splits a laser beam emitted from this laser beam source into an object beam and a reference beam; an object optical system which guides the object beam split by this beam splitter to a holographic recording medium; a reference optical system which guides the reference beam to the holographic recording medium; an address detector which is arranged on a line extending an optical axis of the reference beam having passed through the holographic recording medium; and a two-dimensional photodetector which is arranged on a line extending an optical axis of the object beam having passed through the holographic recording medium, wherein: the reference optical system is configured to include: a beam shaping optical system which transforms a beam shape of the reference beam into an elongated shape; and an angle modulator which guides the reference beam having the beam shape transformed into the elongated shape by this beam shaping optical system to the holographic recording medium with an incident angle modulated, which are arranged in this order from the side of the beam splitter; the object optical system is configured to include: a spatial light modulator which modulates an intensity of the object ~~reference~~ beam according

to information to be recorded; and a Fourier lens, which are arranged in this order from the side of the beam splitter; the beam shaping optical system is configured such that a minor axis of the elongated shape is coincident with an angle multiplex direction by means of the angle modulator; and a distance of the address detector from the holographic recording medium is set such that beam spots on lines extending the reference beam having passed through the holographic recording medium for respective incident angles are adjacent to each other with a spacing therebetween on a light receiving surface.

IMA 3/16/09

Please replace the paragraph beginning on page 18, line ~~24~~ 23, with the following rewritten paragraph:

When the information recorded on the abovementioned holographic recording medium 20 is reproduced, all the pixels of the abovementioned spatial light modulator 34 are turned off (into a state in which light is not transmitted). In this case, the reference optical system ~~24~~22 serves as a reproduction optical system to project the laser beam for reproduction onto the holographic recording medium 20.